

IN THE CLAIMS

The pending claims are reproduced herein for the Examiner's convenience.

1. (Previously Presented) A mobile server comprising:

a master server portion residing within a wireless communication device to operate within a wireless communication network and to communicate through one or more base stations of the wireless communication network; and

a virtual server portion operating within a publicly-accessible internet network and accessible to client devices through the publicly-accessible internet network to store the server data and to receive updates to server data from the master server portion through a support node, the support node to provide an interface between the wireless communication network and the publicly-accessible internet network,

wherein the virtual server portion is to provide the server data and services on behalf of the master server portion over the publicly-accessible internet network to client devices requesting the server data and server services from the mobile server by routing packets from requesting client devices to the virtual server portion instead of the master server portion.

2. (Previously Presented) The mobile server as claimed in claim 8 wherein the support node registers the mobile server to provide the services in response to a request from the mobile server to activate the server services.

3. (Previously Presented) The mobile server as claimed in claim 8 wherein the support node is to receive a client request from one of the client devices over the publicly-accessible internet network addressed to the mobile server, and the support node is to route the client request to the virtual server portion to service the client request.

4. (Previously Presented) A mobile server as claimed in claim 3 wherein the wireless communication device is to communicate in accordance with a packet data service format within the wireless communication network, and

wherein the support node is to convert data packets between the packet data service format and an internet-protocol packet format of the publicly-accessible internet network.

5. (Previously Presented) The mobile server as claimed in claim 3 wherein the master server portion and the virtual server portion each comprise:

Web-page data;

client data; and

server data,

wherein when the wireless communication device is in communication with one of the base stations, the support node to provide an update to the client data in the master server portion using a second network address of the master server portion, the update to the client data being buffered by the virtual server portion until the master server portion is accessible through the support node.

6. (Previously Presented) The mobile server as claimed in claim 5 wherein when the wireless communication device is in communication with one of the base stations, the master server portion is to provide an update to the server data and the Web-page data of the virtual server portion through the support node using a network address of the virtual server portion, the update to the server data and the Web-page data being buffered by the master server portion until the master server portion has access to the support node.

7. (Previously Presented) The mobile server as claimed in claim 5 wherein the virtual server portion to provide the Web-page data to client devices over the publicly-accessible internet network using an internet communication protocol in response to the client requests both when the wireless communication device is in communication with one of the base stations and when the wireless communication device is not in communication with one of the base stations.

8. (Previously Presented) The mobile server as claimed in claim 1 wherein the mobile server has first network address associated therewith,

wherein the support node, when registering the mobile server to provide server services, maps the first network address for the mobile server to the virtual server portion,

wherein the support node is to route data packets that have the first network address as a destination address to the virtual server portion to allow the virtual server portion to provide the server data and services to the requesting client devices on behalf of the master server portion over the publicly-accessible internet network, and

wherein the support node is to route data packets that have a network address of the virtual server portion to the virtual server portion to allow the master server portion to provide the virtual server portion with updates to the server data.

9. (Previously Presented) The mobile server as claimed in claim 8 wherein the mobile server further has a second network address,

wherein the support node is to route data packets that have the second network address as a destination address to the master server portion,

wherein the data packets having the first network address as the destination address comprise the client request,

the data packets having the second network address as the destination address comprise updates to client data from the virtual server portion intended for the master server portion, and

the data packets having the network address of the virtual server portion comprise updates to server data from the master server portion intended for the virtual server portion.

10. (Previously Presented) A system that provides mobile server service comprising:
a mobile server to service client requests, the mobile server comprising a virtual server portion to operate in a publicly-accessible internet network and a master server portion within a wireless communication device to operate in a wireless communication system; and

a support node to route client requests received through the publicly-accessible internet network to the virtual server portion for servicing, and to convert data packets between a wireless

packet radio format of the wireless communication system and a internet network format of the publicly-accessible internet network,

wherein the support node is to map a public address for the mobile server to the virtual server portion in response to a request from the mobile server to activate the server services, and

wherein the virtual server portion is to provide the server data and services on behalf of the master server portion over the publicly-accessible internet network to client devices requesting the server data and server services from the mobile server.

11. (Previously Presented) The system as claimed in claim 10 wherein the master server portion comprises client data and server data, the master server portion to update the server data on the virtual server portion when the master server portion is in communication with the wireless communication system, the virtual server portion to update the client data on the master server portion when the master server portion is in communication with the wireless communication system.

12. (Previously Presented) The system as claimed in claim 11 wherein the virtual server portion is to buffer updated client data until the master server portion is in communication with the wireless communication system.

13. (Previously Presented) The system as claimed in claim 11 wherein the server data comprises a Web page, the virtual server portion to provide the Web page to a client device in response to a client request over the publicly-accessible internet network.

14. (Previously Presented) A method for providing mobile server services from a wireless communication device comprising:

receiving, at a support node, a request from the mobile server to activate server services;
mapping, by the support node in response to the request, a first network address for the mobile server to a virtual server portion of the mobile server;

receiving server data for the a virtual server portion from a master server portion of the mobile server through a wireless network;

routing a client request received from a client device through a publicly accessible internet network for server service to the virtual server portion; and

servicing the client request by the virtual server portion on behalf of the master server portion by providing at least some of the server data,

wherein the master server portion resides in the wireless communication device,

wherein the virtual server portion operates within the publicly accessible internet network and communicates the server data with requesting client devices whether or not the master server portion is accessible through the wireless network, and

wherein the support node provides an interface between the publicly accessible internet network and the wireless network.

15. (Previously Presented) The method as claimed in claim 14 further comprising receiving the client request through the publicly accessible internet network, and

wherein the virtual server portion resides in a fixed location within the publicly accessible internet network.

16. (Previously Presented) The method as claimed in claim 15 wherein the wireless network supports wireless packet radio communications, and

wherein the method further comprises communicating updates to the server data through the support node over the wireless network from the wireless communication device to the virtual server portion.

17. (Previously Presented) The method as claimed in claim 16 further comprising:

receiving, at the support node, the client request comprising data packets addressed to a network address of the mobile server;

identifying the client request by the support node as being directed to the mobile server; and

routing, by the support node, the client request to the virtual server portion over the publicly accessible internet network.

18. (Previously Presented) The method as claimed in claim 14 wherein the servicing comprises the virtual server portion providing a Web page to the client device.

19. (Previously Presented) The method as claimed in claim 18 wherein the servicing the client request further comprises allowing the client device access to Web-site data stored on the virtual server portion without routing data packets over the wireless network.

20. (Previously Presented) The method as claimed in claim 15 further comprising receiving the client request directed to the mobile server at the support node, wherein the support node supports wireless packet radio communications with the wireless communication device and routes the client request to the virtual server portion.

21. (Previously Presented) The method as claimed in claim 14 wherein the client request comprises data packets in accordance with an internet communication protocol directed to a network address of the mobile server, the publicly accessible internet network directing the client request to the support node for subsequent routing to the virtual server portion.

22. (Previously Presented) The method as claimed in claim 21 wherein the client request comprises a request using a hypertext transmission protocol and is a request from a Web browser operating on the client device to transfer a hypertext markup language file to the client device from an address of the mobile server.

23. (Previously Presented) The method as claimed in claim 14 further comprising buffering updated client data in the virtual server portion until the master server portion is available to receive the updated client data from the virtual server portion.

24. (Previously Presented) The method as claimed in claim 23 wherein the virtual server portion addresses data packets that comprise the updated client data to a secondary network address of the mobile server, the support node recognizing the secondary address and routing the data packets to the master server portion over the wireless network.

25. (Previously Presented) The method as claimed in claim 24 wherein routing the data packets that comprise the updated client data further comprises converting the data packets from an internet type format to a wireless packet radio communication system format.

26. (Previously Presented) The method as claimed in claim 14 wherein the mobile server has a primary network address and a secondary network address associated therewith, and wherein the method further comprises the support node:

routing data packets that have the primary network address as a destination address to the virtual server portion;

routing data packets that have the secondary network address as a destination address to the master server portion; and

routing data packets that have a network address of the virtual server portion to the virtual server portion.

27. (Previously Presented) The method as claimed in claim 16 wherein:
the data packets having a primary address as a destination address comprise the client request,

the data packets having a secondary network address as the destination address comprise updates to client data from the virtual server portion intended for the master server portion, and

the data packets having a network address of the virtual server portion comprise updates to server data from the master server portion intended for the virtual server portion.

28. (Previously Presented) A method of operating a mobile server having a master server portion residing in a wireless communication device and a virtual server portion operating in a publicly-accessible internet network, the method comprising:

registering with a support node to provide server services, the support node providing an interface between a wireless network and the publicly-accessible internet network and supporting packet data communications for the wireless communication device over the wireless network, wherein the support node is to map a public address for the mobile server to the virtual server

portion in response to a request from the mobile server to activate the server services;

transmitting server data to the support node over the wireless network for routing to the virtual server portion over the publicly-accessible internet network; and

receiving client data updates from the support node over the wireless network, the client data updates being routed to the support node from the virtual server portion over the data network,

wherein requests for server services are provided by the virtual server portion on behalf of the master server portion whether or not the master server portion is available,

wherein the virtual server portion is to provide the server data and services on behalf of the master server portion over the publicly-accessible internet network to client devices requesting the server data and server services from the mobile server.

29. (Previously Presented) The method as claimed in claim 28 wherein the mobile server has a primary network address and a secondary network address associated therewith, and

wherein in response to the request to active the server services, the support node routes data packets received from client devices that have the primary network address as a destination address to the virtual server portion instead of routing the data packets to the master server portion.

30. (Previously Presented) The method as claimed in claim 29 wherein in response to the activation, the support node routes data packets from the virtual server portion that have the secondary network address as a destination address to the master server portion, and routes data packets from the master server portion that have a network address of the virtual server portion to the virtual server portion.